

## What is Enterprise Value (EV)?

Enterprise Value (EV) is the measure of a company's total value. It looks at the entire market value rather than just the equity value, so all ownership interests and asset claims from both debt and equity are included. EV can be thought of as the effective cost of buying a company or the theoretical price of a target company (before a takeover premium is considered).

The simple formula for enterprise value is:

**EV = Market Capitalization + Market Value of Debt – Cash and Equivalents**

The extended formula is:

**EV = Common Shares + Preferred Shares + Market Value of Debt + Minority Interest – Cash and Equivalents**

▲  
URL Copied!



Image from CFI's free Introduction to Corporate Finance Course.

The value of the company can be derived from the assets it owns. However, obtaining the market value of each and every asset can be quite tedious and difficult. What we could do instead is look at how the assets have been paid for. The simple accounting equation can serve as a guide by looking at assets as the application of funds and both liabilities and shareholder's equity as the sources of funds used to finance those assets. When we say value, we mean the current or market value of the company, so it's the market value of liabilities and the market value of equity that we consider.

## What are the Components of EV?

### Equity Value

Equity value is found by taking the company's fully-diluted shares outstanding and multiplying it by a stock's current market price. Fully-diluted means that it includes in-the-money options, warrants, and convertible securities, aside from just the basic shares outstanding. If a company plans to acquire another company, it will need to pay that company's shareholders by paying at least the market capitalization value. This alone is not considered an accurate measure of a company's true value, and for that reason, other items are added to it as seen in the EV equation.



## Total Debt

Total debt is the contribution of banks and other creditors. They are interest-bearing liabilities and are comprised of short-term and long-term debt. The amount of debt gets adjusted by subtracting cash from it because, in theory, when a company has been acquired, the acquirer can use the target company's cash to pay a portion of the assumed debt. If the market value of debt is unknown, the book value of debt can be used instead.



### **Preferred Stock**

Preferred stocks are hybrid securities that have features of both equity and debt. They are treated more as debt, in this case, because they pay a fixed amount of dividends and have a higher priority in asset and earning claims than common stock. In an acquisition, they normally must be repaid just like debt.

### **Non-Controlling (Minority ) Interest**

Non-controlling interest is the portion of a subsidiary not owned by the parent company (who owns a greater than 50% but less than 100% position in the subsidiary). The financial statements of this subsidiary are consolidated in the financial results of the parent company.

We add this minority interest to the calculation of EV because the parent company has consolidated financial statements with that minority interest; meaning the parent includes 100% of the revenues, expenses,

and cash flow in its numbers even though it doesn't own 100% of the business.

By including the minority interest, the total value of the subsidiary is reflected in EV.

Learn more about minority interest in enterprise value calculations.

## Cash and Cash Equivalents

This is the most liquid asset in a company's statement. Examples of cash equivalents are short-term investments, marketable securities, commercial paper, and money market funds. We subtract this amount from EV because it will reduce the acquiring costs of the target company. It is assumed that the acquirer will use the cash immediately to pay off a portion of the theoretical takeover price. Specifically, it would be immediately used to pay a dividend or buy back debt.



## Why is Enterprise Value used?

Enterprise Value (EV) is the value of a company's assets minus its debt. Definition and Examples of EV

Enterprise Value is often used for multiples such as EV/EBITDA, EV/EBIT, EV/FCF, or EV/Sales for comparable analysis such as trading comps.

Other formulas, such as the P/E ratio, usually don't take cash and debt into account like EV does. Hence, two identical companies that have the same market cap may have two different enterprise values.

For instance, Company A has \$60 million in market cap, \$20 million in cash, and carries no debt. Company B, on the other hand, also has \$60 million in market cap, but has no cash, and carries \$30 million of debt. In this simple scenario, we can see that Company A is cheaper to buy because it doesn't have any debt to pay off creditors.

Enterprise Value is very useful in Mergers and Acquisition situations, especially with controlling ownership interests. In addition, it is useful for comparing companies with different capital structures because a change in capital structure will affect the amount of enterprise value.

## Applications in Financial Modeling

In financial modeling, it is common practice to model Free Cash Flow to Firm (FCFF), which is based on the cash flow derived from 100% ownership of all assets and, therefore, determines a company's Enterprise Value.

1	A	B	C	E	F	G	H	Historical Results				Forecast Period									
								2014	2015	2016	2017	2018	2019	2020	2021	2022					
<b>151 DCF Model</b>																					
<b>152 Assumptions</b>																					
153 Tax Rate			25%																		
154 Discount Rate			12%																		
155 Perpetual Growth Rate			4%																		
156 EV/EBITDA Multiple			8.0x																		
157 Current Price			\$11.75																		
158 Shares Outstanding			50,000																		
<b>159</b>																					
<b>160</b>																					
<b>161 Discounted Cash Flow</b>				<b>Entry</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>Exit</b>		<b>Terminal Value</b>									
162 Date			9/30/2017	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2023			EV/EBITDA		579,263							
163 Year Fraction				1.00	1.00	1.00	1.00	1.00	1.00												
164																					
165 EBIT			48,970		53,082		56,958		60,478		65,983										
166 Less: Cash Taxes			12,243		13,265		14,240		15,120		16,496										
167 NOPAT			36,728		39,796		42,719		45,359		49,487										
168 Plus: D&A			9,003		10,203		11,162		11,930		12,544										
169 EBITDA			57,974		63,264		68,121		72,408		78,526										
170 Less: Capex			15,000		15,000		15,000		15,000		15,000										
171 Less: Changes in NWC			4,003		4,749		2,564		2,706		2,128										
172 Unlevered FCF			26,728		30,250		36,317		39,583		44,902		579,263								
173																					
<b>178 DCF Value</b>				<b>Market Value</b>				<b>Rate of Return</b>													
179 Enterprise Value			418,525				Market Cap		587,500			IRR		10%							
180 Plus: Cash			139,550				Plus: Debt		30,000												
181 Less: Debt			30,000				Less: Cash		153,654												
182 Equity Value			528,075				Enterprise Value		463,846												
183																					
184 <b>Equity Value/Share</b>			<b>10.56</b>				<b>Equity Value/Share</b>		<b>11.75</b>												
185																					

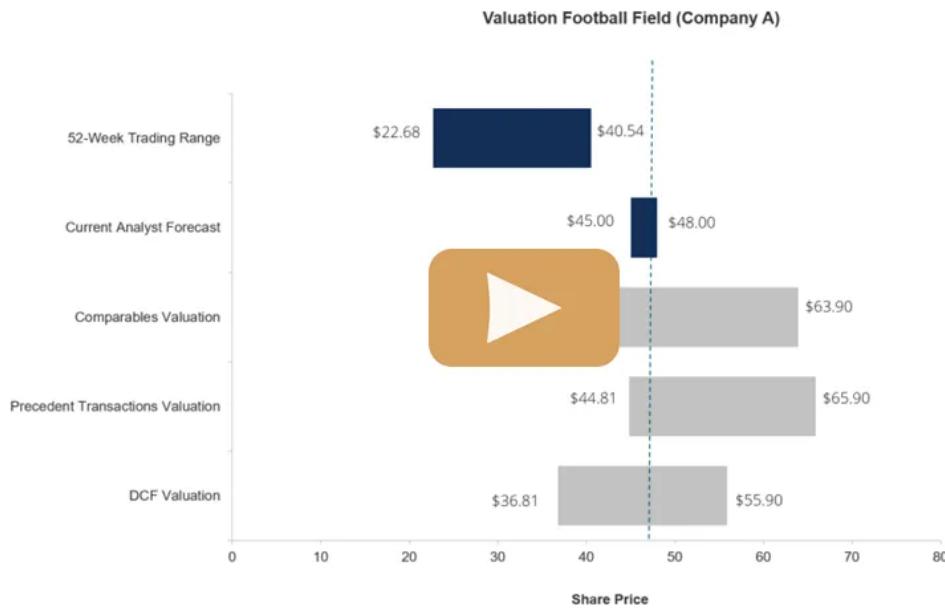
As you can see in the example above, row 172 produces Unlevered Free Cash Flow (the same thing as FCFF). From there, the XNPV function is used to calculate Net Present Value, which is the EV in cell C197.

The above screenshot was taken from CFI's financial modeling courses.

## Valuation Techniques

Learn the most important valuation techniques in CFI's Business Valuation course!

Step by step instruction on how the professionals on Wall Street value a company.



Learn valuation

the easy way with templates and step by step instruction!



## Equity Value vs. Enterprise Value



### Additional Resources

CFI is the official global provider of the Financial Modeling and Valuation Analyst (FMVA)® certification program, designed to transform anyone into a world-class financial analyst. To continue advancing your career, these additional resources will be helpful:

[Enterprise Value vs Equity Value](#)

[Investment Methods](#)

[Valuation Methods](#)

[Balance Sheet](#)